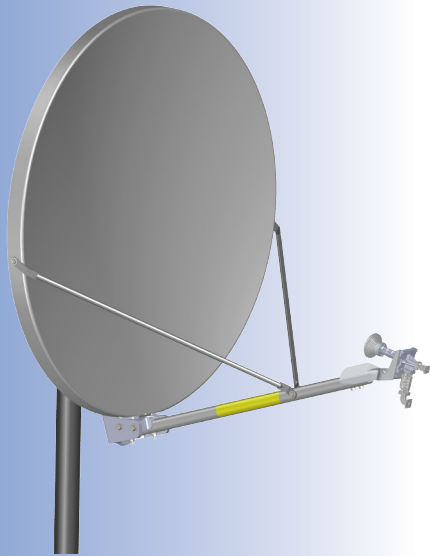


98cm Ka RxTx Class I Antenna System



Type 988 Antenna Product Specification

- Precision composite reflector
- Fine azimuth and elevation adjustment features
- ISO 9001:2008 Certificate of Registration
- Meets or exceeds regulatory agency requirements



RF Performance

Effective Aperture	.98cm (39in)	
Operating Frequency	Tx	28.00-30.00 GHz
	Rx	18.10-20.20 GHz
Polarization	Circular RH or LH	
Gain (± 0.3 dB)	Tx	47.6 dBi @ 30.00 GHz
	Rx	44.1 dBi @ 20.20 GHz
3dB Beamwidth	Tx	0.69° @ 30.00 GHz
	Rx	1.01° @ 20.20 GHz
Sidelobe Envelope (Tx, Co-Pol dBi)	100 $\lambda/D < \Theta < 20^\circ$	-29 - 25 Log Θ dBi
	20° < $\Theta < 26.3^\circ$	-3.5 dBi
	26.3° < $\Theta < 48^\circ$	32-25 Log Θ dBi
	48° < $\Theta < 180^\circ$	-10 dBi (averaged)
	Antenna Cross-Polarization (within 1 dB B/W)	
	Tx	.25 dBi
	Rx	.22 dBi
Antenna Noise Temperature*	10° El.	.88K
	20° El.	.62K
	30° El.	.51K
VSWR	1.3:1 Max	
Isolation (Port to Port)	Tx	90dB
	Rx	80dB
Feed Interface	Tx	WR28
	Rx	WR42

Mechanical Performance

Reflector Material	Glass Fiber Reinforced Polyester	
Antenna Optics	One-Piece Offset Feed Prime Focus	
Mount Type	Elevation over Azimuth	
Maximum Radio Weight	2.3kg or 5lb for RF Electronics	
Elevation Adjustment Range	.5° - 90° Continuous Fine Adjustment	
Azimuth Adjustment Range	360° Continuous, $\pm 5^\circ$ Fine	
Mast Pipe Interface	60.3mm (2.38 in) Diameter O.D.	
Wind Loading	Operational	72 km/h (45 mph)
	Survival	241 km/h (150 mph)
Temperature	-50°C to 60°C	
Humidity	0 to 100% (Condensing)	
Rain	1/2" Per Hour	
Atmosphere	Standard Hardware Meets 720 Hour	
	Salt Spray Test Requirements (ASTM B-117)	
Solar Radiation	360 BTU/h/ft2	
Shock and Vibration	As Encountered During Shipping and Handling	

*Gain and Noise Temperature at Feed Horn Flange
(All Specifications Typical)

REV 07/17 - 03

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